

**SEARCH REQUEST FORM**

Scientific and Technical Information Center

Requester's Full Name: David Lukton Examiner #: 71263 Date: 2/4/03  
 Art Unit: 1653 Phone Number 308-3213 Serial Number: 09-912164  
 Mail Box and Bldg/Room Location: \_\_\_\_\_ Results Format Preferred (circle): PAPER DISK E-MAIL

Mail Box: 9B01 Exr Rm: 9B05

If more than one search is submitted, please prioritize searches in order of need.

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Title: S-Nitrosothiols as Agents for the Treatment of Circulatory Dysfunctions

Applicants: MOLINER, JOSE REPOLLES; PEREZ-RASILLA, EDUARDO SALAS; COY, FRANCISCO PUBILL; RIUDAVETS, JUAN-ANTONIO CERDA; ROFES, CRISTINA NEGRIE; LLORENTE, LYDIA CABEZA; SISO, ALICIA FERRER; ADROHER, NURIA TRIAS; BANUS, MARCEL.LI CARBO; MORENO, JESUS MURAT; LLAGUNO, PEDRO MICHELENA

Earliest Priority Date: 1/27/99

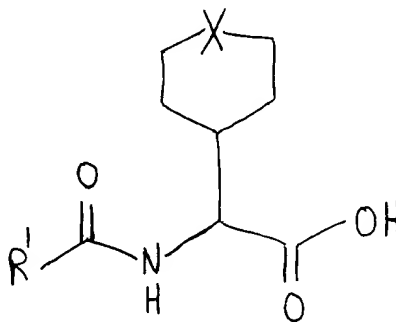
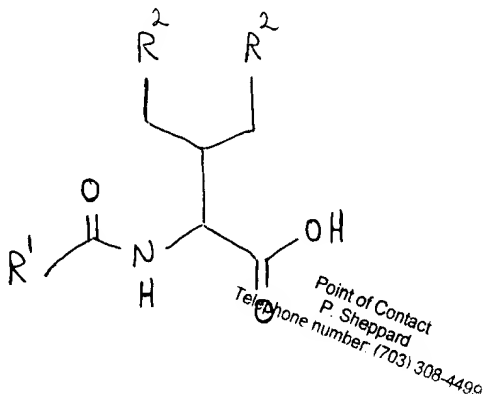
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Applicants are claiming each of the two genera of compounds below.

R<sup>1</sup> = C<sub>1-4</sub> alkyl;

R<sup>2</sup> = phenyl;

X = -O- or -S- or -NCH<sub>3</sub>-

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Searcher: Point of Contact P. Sheppard Type of Search: \_\_\_\_\_ Vendors and cost where applicable: \_\_\_\_\_  
 Telephone number (703) 308-4490  
 Searcher Phone #: \_\_\_\_\_ NA Sequence (#) \_\_\_\_\_ STN \_\_\_\_\_  
 Searcher Location: \_\_\_\_\_ Structure (#) \_\_\_\_\_ Dialog \_\_\_\_\_  
 Date Searcher Picked Up: \_\_\_\_\_ Bibliographic \_\_\_\_\_ Questel/Orbit \_\_\_\_\_  
 Date Completed: 2/4/03 Litigation \_\_\_\_\_ Lexis/Nexis \_\_\_\_\_  
 Searcher Prep & Review Time: \_\_\_\_\_ Fulltext \_\_\_\_\_ Sequence Systems \_\_\_\_\_  
 Clerical Prep Time: \_\_\_\_\_ Patent Family \_\_\_\_\_ WWW/Internet \_\_\_\_\_  
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FILE COVERED 1907 - 4 Feb 2003 VOL 138 ISS 6  
 FILE LAST UPDATED: 3 Feb 2003 (20030203/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1          STR
      7      8  9      11      21
      0      G2  C      C      G3
      10 C      C 12      20 C      C 22
G1  2  N  C  C  O
2  C  3  4  5  6      15 C 14 C 13      25 C      C 23
      C      C      C G1
      16 @17 18 19
  
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E C  
 0.6 327

VAR G1=ME ET/I-PR/N-PR/I-PO/N-BO/T-BU/S-BU  
 VAR G2=17 14  
 VAR G3=0/3 16-20 27-22  
 NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ELEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(3) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 27

STEREO ATTRIBUTES: NONE  
 L1 13 SEA FILE=REGISTRY SSS FUL L1  
 L1 6 SEA FILE=HCAPLUS ABB=ON PLU=ON L3

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L4 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:204444 HCAPLUS  
 DOCUMENT NUMBER: 134:367161  
 TITLE: Synthesis and spectroscopy of novel  
 .alpha.-pyrazolylglycine derivatives  
 AUTHOR(S): Eia-Ul-Haq, Muhammad; Arshad, Muhammad;  
 Saeed-Ur-Ranman  
 CORPORATE SOURCE: Chemistry Department, Quaid-i-Azam University,  
 Islamabad, Pak.  
 SOURCE: Journal of the Chinese Chemical Society (Taipei,  
 Taiwan) (2001), 48(1), 41-46  
 CODEN: JCCSAC; ISSN: 0009-4536  
 PUBLISHER: Chinese Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 134:367161  
 CI

R-

R K

R R1

R2N CO2H I

AB The synthesis of four .alpha.-pyrazolylglycine derivs. [1; R = Me; R1  
 Me, Ph; R2 = H, Ph] with different substituents, starting from glycine  
 have been prep'd. The spectroscopy of intermediate compds. and the final  
 amino acids have been discussed.

IT 340008-68-6P

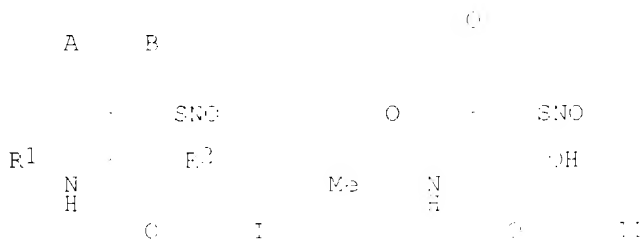
R1: PCT (Reactant); JPN (Synthetic preparation); PREF (Preparation); FACT  
 (Reactant or reagent;  
 (prepn. of .alpha.-pyrazolylglycine derivs. via cyclocondensation  
 reaction of glycine 1',2'-diketo derivs. with hydrazines)

REFERENCE COUNT: 13 THESE ARE 13 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2000:515117 HCAPLUS  
 DOCUMENT NUMBER: 133:150471  
 TITLE: Aromatic and heterocyclic S-nitrosothiols useful as  
 agents for the treatment of circulatory dysfunctions  
 INVENTOR(S): Repolles Moliner, Jose; Salas Perez-Rasilla, Eduardo;  
 Ponsill Coy, Francisco; Gorda Riudavets, Juan Antonio;  
 Vayria R Iba, Cristina; Vayria R Iba, Lydia; Barrio  
 Siso, Alicia; Trias Aguado, Nuria; Barrio Ranaus,  
 Marcella; Murat Moreno, Jesus; Marielena Llaguna,  
 Pedro  
 PATENT ASSIGNEE(S): Lacer, S.A., Spain  
 SOURCE: PCT Int. Appl., 46 pp.  
 CODEN: FIMX72  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Spanish

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000/04714	A1	20000803	WO 2000-ES19	20000119
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, DE, DE, DK, DM, EE, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AZ, AY, BG, BR, ND, RS, TJ, TT				
EW: GH, GI, HE, IS, NW, SI, SL, SE, TI, TR, TW, AU, AF, Y, Y, YE, ZK, EL, FI, FR, GB, GR, IE, IT, LU, NL, PL, PT, SE, SF, SI, TJ, TG, TR, TM, UA, UG, UZ, ML, MR, NU, ON, ID, TG				
ES 2147102	A1	20000116	ES 1999-159	19990127
ES 2147102	B1	20010316		
BR 2000007395	A	20011010	BR 1000-7395	20000119
EP 1157087	A1	20011128	EP 1000-900518	20000119
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, SK, TR, FI, R				
GB 2161014	A1	20010116	GB 2161014	20000119
DE 11010001	T	20010116	DE 11010001	20000119
EP 21020816	T2	20010116	EP 21020816	20000119
NO 210103110	A	20010116	NO 210103110	20000119
US 2000050629	A1	20020816	US 1001-912164	20010724
PRIORITY APPL. INFO.:			ES 1999-159	A 19990127
			WO 2000-ES19	W 20000119
OTHER SOURCE NO.:		MARPAT 15:150471		
GI				



AB The invention relates to novel S-nitrosothiols derived from penicillamine or glutathione, of general formula I [wherein A, B = Ph; or AB = CH<sub>2</sub>-q-CH<sub>2</sub> where q = O, S, or N-R<sub>3</sub>; R<sub>3</sub> = H or C1-C4 alkyl; R<sub>1</sub> = C1-C3 aliph. acyl or glutamic acid bonded by gamma-carboxy group; R<sub>2</sub> = OH or glycine radical bonded by peptidic linkage so that R<sub>2</sub> = OH when R<sub>1</sub> = aliph. acyl, and R<sub>2</sub> = glycine when R<sub>1</sub> = glutamic acid]. The compds. exhibit vasodilating and blood platelet aggregation-inhibiting activity, and are useful in the treatment of circulatory system dysfunctions, esp. cardiovascular dysfunctions. For instance, D-amino-2-(4-mercaptotetrahydropyran-4-yl)acetic acid HCl salt was neutralized with NaOH and then N-acetylated with AcCl in MeCN, and the N-acetyl deriv. was S-nitrosylated with HCl and NaNO<sub>2</sub> in aq. MeOH under sonication, to give invention compd. II. II was in vitro assay for vasodilation of norepinephrine-contracted arterial rings, II had an EC<sub>50</sub> of 0.375 .mu.M, vs. 1.56 .mu.M for the known comparison compd. S-nitrosogluthathione, and 0.024-1.89 .mu.M for other invention compds. I.

IT **287402-90-8P**, N-Acetyl-2-amino-2-(4-mercaptotetrahydropyran-4-yl)acetic acid

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); KAUF

(Reactant or reagent)

(intermediate; prepn. of arylalkyl-contg. S-nitrosothiols as cardiovascular agents)

IT 287402-83-9P, N-Acetyl-2-amino-2-[4-(S-nitrosothio)tetrahydropyran-4-yl]acetic acid  
 RL: EAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); EIOI (Biological study); PEEI (Preparation); USES (Uses)  
 (target compd.; prepn. of arylalkyl-contg. S-nitrosothiols as cardiovascular agents)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS ENCOMP. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1991:480011 HCAPLUS

DOCUMENT NUMBER: 127:149409

TITLE: Preparation of .alpha.-arylglycine and N-glycyl-.alpha.-arylglycyl derivatives having affinity to neuropeptide Y (NPY) receptor

INVENTOR(S): Kondo, Tasuku; Itanana, Hirotune; Toke, Takahiko; Togami, Junji; Tsukamoto, Shinichi

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 41 pp.

COGEN: XXXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09130253	A2	1997-0617	JP 1995-323172	19951212
PRIORITY APPLN. INFO.:			JP 1995-323172	19951212
OTHER SOURCE(S):		MAEPAT 127:149409		

GI

R3 ( )nX

R2

R1-A-E (CH<sub>2</sub>)<sub>m</sub> NH

R4

CONH<sup>5</sup>F6

I

Me Me

S

SO<sub>2</sub>NHCH<sub>2</sub>CONH

N Cl

CN II

AB The title compis. [I; A = aryl, optionally benzene ring-condensed 5- or 6-membered N-contg. heterocyclyl, lower alkylenc; R = SO<sub>2</sub>, CO, CH<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>; wherein R<sup>7</sup> = H, lower alkyl, aryl; X = optionally lower alkyl-substituted CH<sub>2</sub> or NH, S, O; R<sup>1</sup> = H, NH<sub>2</sub>, mono- or di-substituted

alkyl)amino; R<sub>1</sub>, R<sub>2</sub> = H, lower alkyl; R<sub>3</sub> = H, phenyl, benzyl, CH<sub>2</sub>CH<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>, NH<sub>2</sub>, mono- or di(lower alkyl) amino, NHCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>; Y = NH, S, O; wherein R<sub>8</sub>, R<sub>9</sub> = H, lower alkyl, cycloalkyl; or NR<sub>8</sub>R<sub>9</sub> = N-contg. heterocyclyl optionally contg. O; p = 0, 1; R<sub>5</sub>, R<sub>6</sub> = H, lower alkyl, cycloalkyl, aralkyl or aryl; or NR<sub>5</sub>R<sub>6</sub> = N-contg. heterocyclyl optionally contg. O and/or benzene ring-fused; n = 0, 1-4; m = 0, 1 are prepd. They are useful for the treatment of diseases related to physiolo. function of NPY receptor such as obesity, overeating (hyperphagia), sitophobia (phagophobia), epilepsy, anxiety, senile dementia, depression, Parkinson's disease, brain degeneration accompanied by head trauma, various body symptoms caused by stress, hypertension, hypotension, heart failure, angina pectoris, myocardial infarction, coronary diseases, syndrome X, kidney diseases, asthma, diarrhea, and hormone abnormality, or as immunomodulators, etc. (no data). Thus, (2RS,4'RS)-1-[2-(6'-cyano-2',2'-dimethyl-3',4'-dihydro-2'H-benzothiopyran-4'-yl)-N-(diphenylmethylene)glycyl]piperidine was stirred with a mixt. of concd. HCl and MeOH at room temp. for 1 h followed by workup and condensation with N-(2-naphthylsulfonyl)glycine in the presence of (PhO)2P(O)NEt<sub>3</sub> in DMF to give the title compd. (II).

## IT 193403-79-1P

RE: RCT (Reactant); SYN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

prepn. of .alpha.-aryl-glycine and N-glycyl-.alpha.-aryl-glycyl derivs. having affinity to neuropeptide Y (NPY) receptor

L4 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1994:797772 HCAPLUS

DOCUMENT NUMBER: 124:30287

TITLE: Asymmetric catalytic synthesis of .beta.-branched amino acids via highly enantioselective hydrogenation of .alpha.-enamides.

AUTHORS: Burk, Mark C.; Gross, Michael F.; Martinez, Jose F.  
CORPORATE SOURCE: Department of Chemistry, Duke University, Durham, NC, 27706, USA

SOURCE: Journal of the American Chemical Society 117(36), 9375-6

CODEN: JACSAT; ISSN: 0002-7063

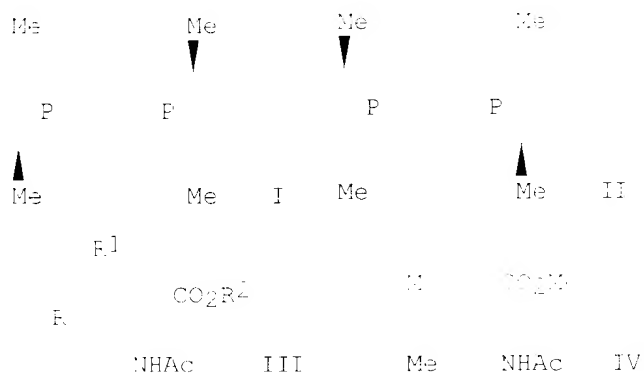
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 124:30287

GI



AB Me-DuPHOS-Rn [(S,S')-Me-DuPHOS = I] and Me-BPE-Rh [(P,R)-Me-BPE = II] hydrogenation catalysts were found to provide access to a wide variety of .beta.-branched amino acids with .beta.-stereoc. 90% enantiomeric excess.

.alpha.-Enamides [III; R, R1 = Me, Et, Pr, etc.; RR1 = (hetero)cyclic moiety; R2 = Me] were smoothly reduced to the corresponding amino acid derivs. at 90 psi H2. Hydrogenation of enamide-117a in benzene at 25 degree and 90 psi H2 using catalyst prepared from (R,R)-Me-BPP-En-117b-GTf- gave the corresponding (R)-amino acid in 98.2% enantiomeric excess at 100% conversion.

IT 171508-16-0 171508-17-1

EL: RLT (Reactant); REACT (Reactant or reagent)  
(asym. catalytic synthesis of .beta.-branched amino acids via highly enantioselective hydrogenation of .alpha.-enamides)

IT 171508-30-8P 171508-31-9P 171508-32-0P

171508-33-1P

EL: SYN (Synthetic preparation); PREP (Preparation)  
(asym. catalytic synthesis of .beta.-branched amino acids via highly enantioselective hydrogenation of .alpha.-enamides)

L4 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1990:199 36 HCAPLUS

DOCUMENT NUMBER: 111:199036

TITLE: New syntheses of .alpha.-amino acids based on N-acylimino acetates

AUTHOR(S): Bratschkow, Thomas; Milon, Wolfgang; Kuchler, Peter; Stieglich, Wolfgang

CORPORATE SOURCE: Inst. Org. Chem. Biochem., Univ. Bonn, Bonn, D-53007/1, Fed. Rep. Ger.

SOURCE: Tetrahedron (1988), 44(17), 5403-14

CODEN: TETRAE; ISSN: 0040-4020

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 111:199036

AB The reaction of N-acylimino- .beta.-am acetates, via N-acylimino acetates, with higher order mixed acetates, trimethylsilyl enol ethers and .beta.-dicarbonyl compds. leads to a variety of .alpha.-amino acid derivs. Their conversion into the free amino acids can be conveniently carried out by the use of tert-butyl protection. In the case of N-acetyl compds., cleavage of the protecting group and optical resolu. can be achieved in one step by hog renal acylase.

IT 119768-64-8P 119768-65-9P

EL: SYN (Synthetic preparation); PREP (Preparation)  
(prepn. of)

L4 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1985:204 67 HCAPLUS

DOCUMENT NUMBER: 111:204266

TITLE: Synthesis of 3,4-iminocyclohexyl-glycine and its N-benzylloxycarbonyl derivative

AUTHOR(S): Driedaszyca, Maria; Martelli, Sante; Borowski, Edward  
CORPORATE SOURCE: Dep. Pharm. Technol. Biochem., Tech. Univ. Gdansk, Gdansk, Pol.

SOURCE: International Journal of Peptide & Protein Research  
1985), 25(1), 99-104

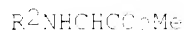
CODEN: IJPPCS; ISSN: 0367-8377

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 111:204266

GI



AB The title compds. I [R = H, PhCH<sub>2</sub>CO<sub>2</sub>C (Z)] were prepd. from prepd. from cyclohexenylglycines II (R<sub>1</sub> = Z, CF<sub>3</sub>CO) via an addn. reaction with isocyanate (III). Thus, III was added to II (R<sub>1</sub> = Z) to give addn. products IV (R<sub>2</sub> = Z, R<sub>3</sub> = NCO) as a mixt. of the 2 possible 3- and 4-positional isomers. The latter were treated with MeOH to give the corresponding IV (R<sub>2</sub> = Z, R<sub>3</sub> = NHCO<sub>2</sub>Me) (as 2 isomers), which were cyclized in the presence of KOH to give I (R = Z). II (R<sub>1</sub> = CF<sub>3</sub>CO) was converted to I (R = H) via IV (R<sub>2</sub> = CF<sub>3</sub>CO, R<sub>3</sub> = NHCO<sub>2</sub>Me). I (R = H) inhibited glucosamine synthetase.

IT **96356-76-2P**

RE: SPN (Synthetic preparations: SHEP (preparation)  
(prepn. of)

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FILE LAST UPDATED: 01 May 1997 (19970501/JP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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 DICTIONARY FILE UPDATES: 3 FEB 2003 HIGHEST RN 485316-86-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
 PROPERTIES for more information. See STNote 21, Searching Properties  
 in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes21.pdf>

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13 ANSWER 1 OF 13 REGISTRY COPYRIGHT 2003 ACS  
 RN 340017-68-6 REGISTRY  
 CN Benzenebutanoic acid, .beta.-acetyl-.alpha.-(acetylamino)-.gamma.-oxo-,  
 methyl ester (9CI) (CA INDEX NAME)  
 ES 3D CONCORD  
 MF 013 H17 N 05  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT

C

Ph C NHAc

Me C CH CH C OMe

O

C

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 134:367161

13 ANSWER 2 OF 13 REGISTRY COPYRIGHT 2003 ACS  
 RN 27402-90-6 REGISTRY  
 CN 2H-Pyran-4-acetic acid, .alpha.-(acetylamino)tetrahydro-4-mercapto- (9CI)  
 (CA INDEX NAME)  
 OTHER NAMES:  
 CN N-Acetyl-1-amino-2-(4-mercaptotetrahydropyran-4-yl)acetic acid  
 ES 3D CONCORD  
 MF 03 H15 N 04 S  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT

NHAc  
O  
HO2C CH  
HS

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 133:150471

LA ANSWER 3 OF 13 REGISTRY COPYRIGHT 2003 ACS  
RN 187402-83-9 REGISTRY  
CN 2H-Pyran-4-acetic acid, .alpha.-(acetylamino)tetrahydro-4-(nitrosothio)-  
(9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN N-Acetyl-2-amino-2-[4-(S-nitrosothio)tetrahydropyran-4-yl]acetic acid  
FI 3D CONCORD  
MF C9 H14 N2 O5 S  
SR CA  
LC STN Files: CA, CAPLUS, USPATFILL

NHAc  
O  
HO2C CH  
CH S

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 133:150471

LA ANSWER 4 OF 13 REGISTRY COPYRIGHT 2003 ACS  
RN 193403-79-1 REGISTRY  
CN Propanedioic acid, (acetylamino)(6-cyano-3,4-dihydro-2H-1-benzopyran-4-yl)-  
, diethyl ester (9CI) (CA INDEX NAME)  
MF C19 H22 N2 O6  
SR CA  
LC STN Files: CA, CAPLUS

O  
NC  
EtO C C C OEt  
O NHAc

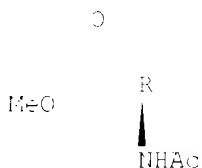
## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 117:149409

L3 ANSWER 5 OF 13 REGISTRY COPYRIGHT 2003 ACS  
 RI 171508-33-1 REGISTRY  
 CH 2H-Pyran-4-acetic acid, .alpha.-(acetylaminotetrahydro-, methyl ester,  
 (R)- (PCI) CA INDEX NAME  
 FC STEREOSEARCH  
 MF C12 H17 N O4  
 CA CA  
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.



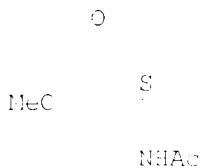
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1 REFERENCES IN FILE CA (1962 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 114:30287

L3 ANSWER 6 OF 13 REGISTRY COPYRIGHT 2003 ACS  
 RI 171508-32-0 REGISTRY  
 CH 2H-Pyran-4-acetic acid, .alpha.-(acetylaminotetrahydro-, methyl ester,  
 (S)- (PCI) (CA INDEX NAME)  
 FC STEREOSEARCH  
 MF C10 H17 N O4  
 SF CA  
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.



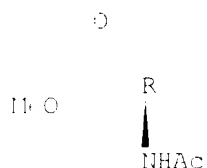
## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 124:30287

L3 ANSWER 7 OF 13 REGISTRY COPYRIGHT 2003 ACS  
 RN 171508-31-9 REGISTRY  
 CN 2H-Thiopyran-4-acetic acid, .alpha.-(acetylamino)(tetrahydro-, methyl  
 ester, (R)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C10 H17 N O3 S  
 KE CA  
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.



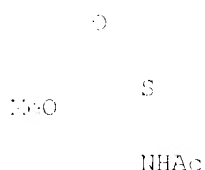
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO LATEST)  
 1 REFERENCES IN FILE CAPLUS (1962 TO LATEST)

REFERENCE 1: 124:30287

L3 ANSWER 8 OF 13 REGISTRY COPYRIGHT 2003 ACS  
 RN 171508-30-8 REGISTRY  
 CN 2H-Thiopyran-4-acetic acid, .alpha.-(acetylamino)(tetrahydro-, methyl  
 ester, (S)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C10 H17 N O3 S  
 KE CA  
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO LATEST)  
 1 REFERENCES IN FILE CAPLUS (1962 TO LATEST)

REFERENCE 1: 124:30287

L3 ANSWER 9 OF 13 REGISTRY COPYRIGHT 2003 ACS  
 RN 171508-17-1 REGISTRY  
 CN Acetic acid, (acetylamino)(tetrahydro-4H-pyran-4-ylidene)-, methyl ester  
 (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C10 H15 N O4

SR CA  
LC STN Files: CA, CAPLUS, CASREACT

D

MeO C C

C NHAc

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 1.4:30287

LS ANSWER 10 OF 13 REGISTRY COPYRIGHT 2003 ACS  
RN 171508-16-1 REGISTRY  
CN Acetic acid, (acetylamino)(tetrahydro-4H-thiopyran-4-ylidene)-, (R\*)-  
ester (9CI) (CA INDEX NAME)  
FC 3D CONCEPT  
MF C12 H15 N O3 S  
SE CA  
LC STN Files: CA, CAPLUS, CASREACT

S

MeO C C

D NHAc

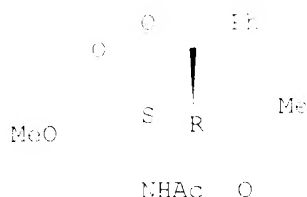
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 1.4:30287

LS ANSWER 11 OF 13 REGISTRY COPYRIGHT 2003 ACS  
RN 119768-69-9 REGISTRY  
CN Benzenebutanoic acid, .beta.-acetyl-.alpha.-(acetylamino)-.gamma.-oxo-,  
methyl ester, (R\*,S\*)- (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Benzenebutanoic acid, .beta.-acetyl-.alpha.-(acetylamino)-.gamma.-oxo-,  
methyl ester, (R\*,S\*)- .beta.-acetyl-.alpha.-(acetylamino)-.gamma.-oxo-,  
FC STEREOSEARCH  
MF C17 H17 N O5  
SE CA  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT  
(\*File contains numerically searchable property data)

Relative stereochemistry.



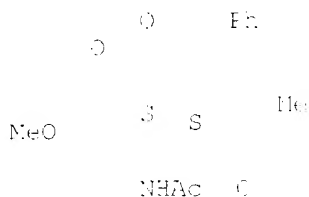
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 112:199036

LS ANSWER 12 OF 13 REGISTRY COPYRIGHT 2003 ACS  
RN 112768-64-2 REGISTRY  
CN Benzenebutanoic acid, .beta.-acetyl-.alpha.-(acetylamino)-.gamma.-oxo-, methyl ester, (R\*,R\*)-(9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Benzenebutanoic acid, .beta.-acetyl-.alpha.-(acetylamino)-.gamma.-oxo-, methyl ester, (R\*,R\*)-(112768-64-2)-  
FS STEREOSEARCH  
MF C13 H17 N O5  
SR CA  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT  
(\*File contains numerically searchable property data)

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 112:199036

LS ANSWER 13 OF 13 REGISTRY COPYRIGHT 2003 ACS  
RN 96386-76-2 REGISTRY  
CN 7-Azabicyclo[4.1.0]heptane-3-acetic acid, 7-acetyl-.alpha.-(acetylamino)-, methyl ester (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C13 H20 N2 O4  
LC STN Files: CA, CAPLUS, CASREACT

AcNH O

CH C OMe

Ac N

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE DA 1961 T. DATE

1 REFERENCES IN FILE DAPIUS (1961 T. DATE)

REFERENCE 1: 102:174266

=> fil beil

FILE 'BEILSTEIN' ENTERED AT 15:46:46 ON 04 FEB 2004

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FILE RELOADED ON OCTOBER 20, 2003

FILE LAST UPDATED ON JANUARY 31, 2003

FILE COVERS 1771 TO 2001.

\*\*\* FILE CONTAINS 8,441,474 SUBSTANCES \*\*\*

>> For the revised summary sheet please see:

<http://info.cas.org/ONLINE/DBSS/beilsteinss.html> <<<

>> PLEASE NOTE: Reaction and substance documents are stored in different file segments. Use separate queries to search for reaction and substance data. When searching for bibliographic information you have the option to chose the file segment. (Use "/XXX.SUB" to search for a bibliographic term in substance documents. To restrict the search to reaction documents use "/XXX.RX".)  
For additional information see HELP RES. <<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE \*\*\*

\*\*\*\*\*  
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\* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE \*  
\* ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE \*  
\* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS. \*  
\* FOR PRICE INFORMATION SEE HELP COST \*  
\*\*\*\*\*